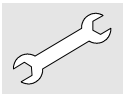

Chapter 3.3

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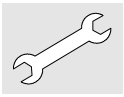
1 Solved bugs from ADC QS 2.0.xx to 2.1.37

- Archiving from the QS 2.009 was creating problems with the image quality on Impax, the Web and on hardcopy because the QS did not fully support archiving 12 log E rel→ VOI lut OD rel.
- Using the Print Composer you did not see the image presented as you get it on film, especially best fit compared to true size looked very confusing.
- The options freeze, hold, reject and release on the QC didn't function properly.
- In the Print Composer some of the layout numbers in combination with true size printing did not work, they are not really true size. In addition the print composer has a lot of layout numbers without information about the differences in these numbers. Therefore there has been a revision of printing and the numbers are replaced by names and the printing size should be correct now
- If image orientation was changed and saved (e.g. from landscape to portrait) the print still was in landscape (also via the quick print). These changes were not updated in the database.
- NT-Screen Saver did not work .
- Sporadically if you used Quick-Print or the Print Composer you got double prints.
- "Printing Status" was not updated if studies were printed via Print Composer or Quick Print
- "Favorites" configuration was lost after upgrade. Also cases were reported that after a Software crash customization information was lost (esp. in Basic QC Viewer). The system went back to the default.
- If there was a RESET on the server, there was no user-message on the clients; the UI on the client only "freezes" (max reported 20min)
- Selection based on date of birth was: today/yesterday/last few weeks
- If you rotated an image and went to the print composer the rotation was saved without asking if you wanted to save the changes you made.
- If no Printer destination ("None") was selected in the PRID-Station Quick Print always defaults to the 771 layout. In version 2.1.xx the problem is resolved if one uses the ID-viewer. For PRID there is a work around when you select a printer and set the number of copies to 0.
- After rotation by 90° it was not possible anymore to get to optimal film usage; the image was clipped (both in Print Composer and on the Hardcopy itself; print mode = best fit).
- Images with low Lgm values are sent to a DS3000. They look good but if this images are forwarded to a WEB1000 or a printer the image is rather white.
- When using the PrintComposer sometimes the following error message appeared: "`There is not enough space available to perform this operation`" and the system hung. The application had to be reset. The (true size) image with which the problem appeared could not be printed by means of PrintComposer. This was due to a fault in the pixel spacing parameter.
- Missing image problem: Two cassettes came up and were released. The first was printed and the second disappeared off the screen. The second image was gone after QS Reset.

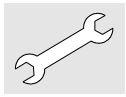
- There was absolutely no permission security, everybody could get into BOExplorer, change NT-settings or access Configuration Viewer. From ADCQS.2.1 on the secure user tool allows to restrict access.
- When an annotation was typed in one did not see the result until the mouse was moved. Now it is always starting with default size 24 points.
- A self-created textbox layout was not delete-able.
- “Hospital name” in the textbox used the `ICRProcedureStepDepartmentname` - field, in the study info it uses the `ICRProcedureStepInstitutionname` - field. Thus the wrong hospital name appeared in the textbox
- The hospital name was imported from the cpf-file and written into the field IDepartment.Hospitalname. However for DICOM transmission the field ICRProcedureStep.Institutionname" (8,80) was sent which was empty. Thus nothing arrived on the PACS in this field.
- If you went into the PrintComposer and changed the layout after you selected already one the image text footer got completely black. The text was not visible anymore. Please not that under certain circumstances this may be normal behaviour, since the footer is depending on the image, and there may be no image cells selected to be moved to the other layout. Then it is normal that the text box is empty.
- When opening the Print Composer the default format could not be configured. Either 8”x10” or (if 8”x10” not available) blank field was shown. In ADCQS.2.1.xx it works as follows: When you open the print composer, while no study is selected, then the default printer is shown in the Printer dialog and the default film size for that printer is shown in the film size dialog. When you open the print composer, while a study is selected the printer defined in the PSO stream is shown in the Printer dialog and the film size defined in the PSO stream is shown in the film size dialog.
- Depending on the selected film formats in the configuration viewer, the print composer opened sometimes with an empty film format box.
- There was a gap between the top of the textbox and the bottom of the image, this was 2 mm on an 8 X 10" film and 6mm on a 14X17" film.
- Position of the rulers on the print was dependant on the rotation of the image. Now a ruler is drawn always on the left and bottom side.
- With the filter TODAY on the Selector, there was no update on events done after 12,00 p.m.
- About 10% of the images archived from Basic QC-Viewer did not arrive in Archive Station.
- The burn function applied to a chest image turned pixel values below the lower window edge (white) to black, but did not turn pixel values above the upper window edge (black) to white.
- Although the Mammo Menus were selected in the CPF-file the Mammo Curve in the Post Processing was not available. The same cpf-file in the VIPS showed the Mammo Curve
- In the Default textbox the Field was IProcedure.Description used. As a consequence instead of the correct data there was an empty space when one worked with the Default Textbox (now ICRProcedureStepDescription is used).



2 Open Issues in ADC QS 2.1.37

- Images with “RoutingStatus” and / or “PrintingStatus” failed may fill up the image cache on the ADC-QS Server. As soon as an image out of a study cannot be transmitted successfully by the Routing or Printing task (=online printing or auto routing) the corresponding status will be set to failed. These images will not be deleted until the status changes and therefore may fill up your image storage. You have to re-transmit them manually to rectify the status.
- Modifying an image / study will not automatically change the UIDs of that study. If you send this study then to a PACS, again the PACS identifies it as an already sent image. How PACS re-acts on that depends on the implementation. This may vary from putting that image into the “Private Area” (IMPAX) to totally refusing the reprocessed image. The only workaround here is that you move the study into a new folder with the “Study Transfer” possibility, which creates a completely new study.
- If Patient-ID without numeric characters inside is entered, it creates a completely new Patient-ID (like "_unknown216545-65431-35431); if a second image is added inside that study and then you write that to the cassette it returns with an error (as Patient-ID is too long). This problem shows up mostly with emergency studies as there the Patient_ID default is “unknown”.
- The “ADCQS Gateway” monitor box shows active buttons like “Kill”. They must not be used although they are active. For a reset of the Gateway always use the “Reset ADCQS” icon.
- An error message box pops up after release of held study with all images rejected. This error message can be ignored. Most likely you can see this error with rejected one-image-studies.
- “Save as new” is not possible. This may have the following side effect: Changing image processing on the ADC QS only allows the image be saved in-place (”as new” does not work). This results that the new image has the same UIDs and then the PACS denies to accept it. This is not transparent for the customer.
- Hanging order in the IPD-Viewer can be changed but not saved. The only way to change **and** save the hanging order is in the Selector.
- Only 0 and 1 copy works although 5 can be entered. Please note that intermediate files are stored anyway on C:\temp\DICOM for each copy and are removed after the first one is printed. However there is always just one hardcopy printed. If the print fails the additional files remain on the disk which may cause your C:\ partition getting full.
- In IPD Viewer the “Export Study” temporarily freezes the Viewer. It blocks application until exporting is finished. When a study is exported from the IPD Viewer the "Viewer.exe" CPU usage (measured in NT TaskManager) exceeds 90% and the IPD Viewer does not respond to any keystrokes or mouse clicks until the export is completed.
- The stitch dialog image order (Full Leg / Full Spine mode) is not in the hanging order as in IPD Selector or Adv. QC-Study mode. The order in the Stitch dialog seems to be random.

- Open studies are not loaded on start-up of ID-Viewer even when the 'Load open studies at start-up' radio button in the advanced settings window of ID-Viewer is selected. Study is only remembered if it has been written once to cassette. Otherwise it is not on the Server.
- There is no possibility to select the number of copies in the Configuration Viewer like it was possible in the CCM-tool. Users who don't have an Advanced QC Viewer and use only IPDViewer and Quick-print, have no way to pre-select the number of copies if Substudy should be printed automatically (i.e. number of copies = 1) and which to annotate first and then print (number of copies = 0).
- IPD Viewer allows more study export formats than Selector. “Export Study” from Selector does not support JPEG, BMP, TIFF, PNG formats. IPD Viewer does this in addition to XML format.
- Auto QC images cannot be displayed on any other system then they were received directly from the digitizer. As a consequence images cannot be imported to another QS and be processed with the Auto-QC algorithm. They are just regarded as normal images.
- Zoomed & printed images sometimes don't show ruler. If images are printed in a “magnified status” the ruler is clipped of on the hardcopy.
- Reprocessed image cannot be transmitted to PACS. Changing image processing on the ADC QS only allows the image be saved in-place (“as new” is not available). This results that the new image has the same UIDs and then the PACS denies to accept it.
- It is not possible to re-write changed data in the same study to a cassette, or to identify a different cassette with previously used data.
- Once a patient entry is in the database it does not disappear anymore. That means that even if the last study of that patient is deleted from the Selector it still remains in the database (although it is not visible anymore in the Selector). The database can hold 3,2Mio patient entries before it runs full.
- Loading a CPF-File takes more than 10 minutes. This will still be the case but you have to load the CPF-File only once and then all change are done online in the Configuration Viewer. Then this is saved in a XML file and the CPF file should never be used again or all changes made in Configuration Viewer will be lost.
- Dose monitor statistics lost after import CPF-File.
- The import of the configuration XML file takes very long (depending on the size). Especially a big study tree causes considerable waiting times. As a rule of the thumb it can be assumed that an XML file with a size of 0.5 Mb takes approximately seven minutes for importing. So don’t get impatient.
- No up-front warning is issued if demo license expires (last 90 days).
- If you apply a measurement at the edge of an image sometimes the value is cut off by the image edge or displayed out of view completely (top / bottom). A part of the measurement value may disappear.
- Selecting a printer via WebAdmin on IE5.5 fails. The following message appears:
  `Exception occurred, function name, "GetDoc From String"`



```
Exception [Object Error]    Exception description:
Automation Server can't create object. Pressed <OK> on this
IE Error dialog box and IE throws another exception.

Exception occured in the "xform" behavior function name:
"_GetObjectCallBack"    Exception [Object Error]
Exception description: 'documentElement' is null or not an
object.
```

Workaround: Either install msxml3.xml for IE5.5 or upgrade to IE6.0 on Service PCs.

- Not possible to change the label of a cell in the textbox editor. Label field cannot be modified; it has to be deleted and re-entered from scratch.
- Client & server textbox layout is independent. It has to be configured independently. If you print via QuickPrint or PrintComposer the locally defined textbox layout is taken. If you do online printing the text box layout from the server is taken. This may cause differences in the textbox layout if the configuration on server and client is different.
- The size of the 2 images linked is different on the film. This problem shows only up if PRID (in Link Mode) is used for identification.
- Print composer standard layout may contain also self-created layouts. To avoid this always use “save as” (not “save” or corresponding icon), if you create a layout. Then the layout appears in the favorites.
- When image 1 is supposed to be annotated in Advanced QCViewer and image 2 is just coming in and is processed for that time the annotations are not accepted.
- Transferred studies into a new study will result in problems with QuickPrint. Not all images will be printed as new study and doesn’t have correct printing layouts (PSO stream) assigned. Workaround: Use PrintComposer for studies composed by drag & drop into a new study.
- Print from Print Composer on the Client intermittently resulted in blurred images (occurred four times in 8 days in a site). However textbox is sharp. Images look like blown up from a small pixel matrix to a 14” x 17" film. This effect is also sometimes visible when the image is build up in Print Composer (esp. on Client).
- There is no progress indication for tasks like backup or restore. You have to open and close the TaskManager to update the status of the task or look to the NT-Task Manager.
- If the image cache is full and you import studies with an older creation date then the oldest images on the QS will be deleted right away again. This is how diskmon is set up. To still make this images available you have to make disk space free before importing.
- Currently there is no indication showing that image processing parameters were changed from the original.
- Depending on the translation some text may not fit into the corresponding places, buttons, labels, etc.
- Although “Paste” option is active in IPDViewer there is no function behind.
- When LgM is added to Image or Thumbnail demographics, the value displayed is always preceded by the characters '(1)' (e.g. (1) 1.85).

- Import/Export Configuration-XML not available in WebAdmin Service Tool.
- For the Auto QC package “Compare” does not work in the WebAdmin Service Tool. It does work in Configuration Viewer.
- In the Exposure tree in Configuration Viewer the entry “`System Diagnostics`” (path: “`Setup\StudyTypes\RadiDefault\`”) has two entries: “`LDS/`**`Agfa`**` CR Contrast`” and “`LDS/`**`Agfa`**` CR Spatial`”. These names will also remain in the GE version of the ADC QS. They will not be “GE-ized” as the phantoms are an AGFA product like MUSICA is. It is still delivered to GE in an AGFA package. So this is not really regarded a bug.
- During internal testing the following error appeared six times:

  ```
  CMainFrame::OnShallowRefreshForInsert(MainFRM.cpp)(1467)
  CMainFram::DoUpdate (MainFRM.cpp)(754)
  CViewerDoc::SetUuidStudyCollection (ViewerDoc.cpp)(654)
  CViewerDoc::_AutoSelectActiveCI (ViewerDoc.cpp)(821)
  CViewerDoc::_SetActiveByCIUuid (ViewerDoc.cpp)(1583)
  CViewerDoc::_SelctActiveObjectChildrenByUuid(ViewerDoc.cpp)
  (2253)
  CViewerDoc::_GetChildrenUuid (ViewerDoc.cpp)(2171)[-1]
  CViewerDoc::_GetChildrenUuid (ViewerDoc.cpp)(2171)
  Exception ACCESS_VIOLATION (0x0000005) at address x00eff38a
  ```

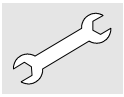
  The message could be clicked away and normal working continues. This happened with a DELL Precision 420 at maximum input rate of 120 images / hour which were auto routed and auto printed. The problem was not seen anymore afterwards.
- Newly added Destinations in Configuration Viewer display the following error message when they are first used:

  ```
  NOSUCHSTORAGE device error
  ```

  Workaround: Always reset ADC QS application after any configuration change.
- If the ADC QS Server is running for long time without reboot and on high load (between 10000 images (3 Clients connected) and 30000 images (Standalone)) a reboot is necessary. Otherwise the ADC QS gets unstable and may show errors when C-drive is full or “Dr. Watson” message (due to small memory leaks) appears. Therefore it is strongly recommended to do a regular reboot.
- With low frequency the following error was seen during internal testing on the ADC QS Server.

  ```
  FinalRelease error on server machine.
  CServerConnection::FinalRelease (ServerConnection.cpp) (501)
  CServerConnection::FinalRelease ServerConnection.cpp) (499)
  [0] Failed to Disconnect from server. Sub-error - Disconnect
  (ServerConnection.cpp) (226) Object is not connected to
  server.
  ```

  The error message did not show any impact on the normal working of the Server. It just can be clicked away.
- It is not possible to configure ID Viewer to open “Maximized”.
  Workaround: If the ID viewer was opened and positioned in the upper left



hand corner & “dragged” open, it will re-open maximized (large) on the next session.

- When a test image (Black, White, Contrast, Light or SMPTE) is transmitted from one ADC QS Sever to another one and the same test image is present on the destination ADC QS Server, this test image is deleted (i.e. not available anymore). Therefore it is not recommended to use the test images to test the connection between two Servers. Better use a normal Study. If you did transmit a test image anyway it still can be imported from the documentation CD coming with each system.
- After running the "Restore All" or "Restore Configuration" tasks in Configuration View the status of the "Backup" and "CleanDanglingBlob" tasks goes to ACTIVE_EXECUTING. These tasks are not running and still work correctly but the status is incorrect. Only the next time these tasks are running the status will be corrected.
  Workaround: Manually run of the tasks "Backup" or "CleanDanglingBlob" will restore the correct status.
- When you delete from the selector a study / image it is gone. there is no waste bin or “undo” possibility
- Different transmit destinations names are not visible in the selector. It only displays “Done”.
- The C:\ partition may get full if more than one copy is to be printed. It doesn’t make sense to select more copies on the ADCQS anyway as it only will print one copy. However there will be (huge) files created on the c. partition for each copy.
- A small difference between W/L settings of VIPS and ADCQS maybe observed. However this difference is acceptable from Application point of view. The window settings maybe little bit narrower on ADCQS (deviation is smaller than 2,5%) than on VIPS
- In the print-queue of the WINDOWS-NT PRINT manager only the layout numbers are visible but not the e.g. patient name
- If you select more than one image in the viewer and you click on the histogram with the first image it doesn’t change when you select the second image. Only if you select window / level the histogram changes to the one of the second image.